

## MTN/1185IDC Series

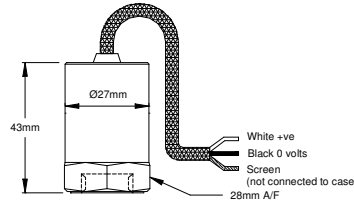
Intrinsically Safe 4-20mA Velocity Transducer  
ATEX & IECEx Group II Approved for Dust Laden Environment

### Applications

- Intrinsically safe data-collector
- Fans, compressors, pumps, etc.

### Technical Specification

Output Current	4-20mA DC proportional to RMS velocity (mm/s)
Velocity Range	See table below
Frequency Response	2 Hz to 1 kHz $\pm 10\%$
Dynamic Range	See table below
Mounted Resonance	5 kHz min
Isolation	Base isolated
Operating Temp Range	-25 to 90°C
Temperature Sensitivity	0.08 %/°C
Transverse Sensitivity	Less than 5%
Supply Voltage	12-32 Volts DC (4-20 mA)
Standard Cable	5 metres armoured PTFE
Maximum Cable Length	See system drawing ATX009
Case Material	Stainless steel
Weight	150 gms (nominal)
Sealing	IP67
Mounting Torque	8Nm
Certificate Details: Group II	Ex ia IIC T6 BAS02ATEX1057 and IECEx BAS 08.0013X
System Connection	Drawing ATX009
Barrier	MTL787S, BAS01ATEX7202 or P&FZ787, BAS01ATEX7005 or any other barrier that conforms to note 4 of ATX009.
Options	Ranges, Dust option (Group II only), filters, mounting threads, other cable lengths



ORDER CODE PART No	MOUNTING	xx =VELOCITY RANGE AVAILABLE (+/- 10%)
MTN/1185IDC-xx MTN/1185IDCQ-xx	1/4" UNF FEMALE QUICK FIT FEMALE	0-20 mm/sec RMS 0-25 mm/sec RMS 0-50 mm/sec RMS 0-100 mm/sec RMS
FOR OTHER MOUNTINGS SEE OVER PAGE.		

### Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569 Email: [info@monitran.com](mailto:info@monitran.com) Registered in England No. 2054040

Fax: +44 (0)1494 812256 Web: [www.monitran.com](http://www.monitran.com) Vat No. GB442 4883 40

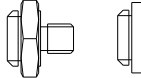
## Mounting Adapters and Studs

### Studs and Grub Screws



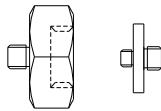
Male Studs		
Product Code	From	To
MS036	1/4" - 28 UNF	M6
MS039	1/4" - 28 UNF	10 - 32 UNF
MS067	1/4" - 28 UNF	M8
MS068	1/4" - 28 UNF	1/4" - 28 UNF
MS124	1/4" - 28 UNF	M10
MS132	1/4" - 28 UNF	M12

### Quick Fit Adapters



Quick Fit (Q/F)		
Product Code	From	To
MS001	Q/F Male	Glue Base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	1/4" - 28 UNF Male
MS006	Q/F Male	M6 Male

### Other Adapters



Mounting Adapters		
Product Code	From	To
MS005	Q/F Male	1/4" - 28 UNF Female
MS007	Q/F Male	10 - 32 UNF Female
MS008	Q/F Male	M8 Female
MS011	1/4" - 28 UNF Male	Q/F Female
MS013	1/4" - 28 UNF Male	Glue Base
MS033	1/4" - 28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	1/4" - 28 UNF Male	10 - 32 UNF Male
MS079	1/4" - 28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

Isolation		
Product Code	From	To
MS034	1/4" - 28 UNF Male	1/4" - 28 UNF Female
MS093	Q/F Male	M8 Male

Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569

Email: [info@monitran.com](mailto:info@monitran.com)

Registered in England No. 2054040

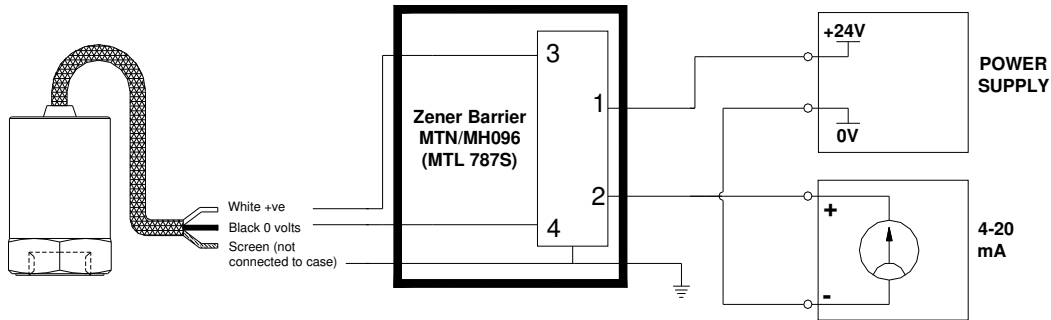
Fax: +44 (0)1494 812256

Web: [www.monitran.com](http://www.monitran.com)

Vat No. GB442 4883 40



## Barrier System Connection



**Note :** Care should be taken not to install this in a high velocity dust laden atmosphere.

Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569

Email: [info@monitran.com](mailto:info@monitran.com)

Registered in England No. 2054040

Fax: +44 (0)1494 812256

Web: [www.monitran.com](http://www.monitran.com)

Vat No. GB442 4883 40

